

THE ROUND OF LIFE.

Two children down by the shining strand, With eyes as blue as the summer sea...

A trim bull home on a shaggy bay, A wife looking out on the gleaming sea...

A lifted latch and a radiant face By the open door in the falling night...

An aged man in an old arm chair, A golden light from the western sky...

An old churchyard on a green hillside, Two living still in their peaceful rest...

A rainbow bridging our distant shores, Are the round of our lives from year to year!

Agriculture.

Sago and Tapioca. Sago and tapioca differ in value materially, as was shown recently in a lawsuit...

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At the meeting of the Western Iowa Horticultural Society at Corning, in their practical discussion on small fruits, it was said that the strawberry is the most discriminating of all fruit plants of common culture in regard to composition and texture of soil. It must be moderately rich and deeply pulverized, and fed from year to year with fertilizers.

A Colorado ranchman has sold 184 head of cattle for \$8145, averaging four cents to five cents per pound, gross weight. He avers that the only expense they had been to him was the cost of branding and gathering, averaging \$1 per head per year of the animals' lives. They were high-grade Short-horns, and brought more than the ordinary price for wild steers.

Every one interested in potatoes should try on a small scale new varieties, till they find something adapted to their cultivation, etc., and by being a little careful, can double their yield on any of the old kinds with but a little extra expense.

Says the Sugar Beet: "Silos, if not properly closed, will permit rain to enter, and much harm will result. The consequence is that, rain-entering, it carries away a large amount of the nourishing elements."

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Scab is said to have been eradicated from New Zealand and almost driven from Australia by a law imposing a penalty of \$500 for every case of scab found after seven months from the date of going into effect of the law.

Farmers trying to make a living off worn-out lands must stop selling their calves and pigs, and sell fat oxen and hogs instead, and they will soon see an improvement in the fertility of their lands and in their bank account.

One of the results of the late Commissioner Le Duc's experiment in tea-hedge-planting for which, where the climate and soil are suitable, it is said to be excellently adapted.

A process has been discovered in Mississippi by which sweet potatoes can be kept through the winter without rotting. The water is evaporated, leaving the sugar and starch by another process, and farmers are thus enabled to store their away or dry them, as preferred.

The attention given to market gardening around New Orleans is increasing. There is not only a good home market, but a large demand from Northern cities, such as St. Louis and Chicago, which get their first supplies from Louisiana market gardeners.

A good cow has a full eye, a small and short head, dished in the face and sunken between the eyes; a soft and silky skin, deep from the loin to the udder, and a very short tail, a thin udder and a square bag with teats a good distance from each other, and one which, when milked, shrinks to a small compass.

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Scientific Economy. The Marine Register complains that New York harbor is being seriously injured by ashes and refuse dumped into its waters almost daily.

Twenty years ago it required five tons of coal to make a ton of iron. Now a ton of steel rails may be produced from this ore with but half that amount of coal.

Basaltic lava, near Mount Etna, which has been examined by Professor O. Silvestri, contains small cavities filled with a waxy, yellowish paraffine, melting at 60° and soluble in ether or alcohol.

Belt manufacturers may find it of interest to know that the experiments of Mr. Jansky, of Brussels, disclose that under uniform loads coutchoue takes increasing elongations, until it becomes quite twice as long as it was originally, and that then the elongations decrease until rupture ensues. The weight necessary to quadruple the length is three times that under which the length has become doubled.

Monkeys, says Alfred R. Wallace, are usually divided into three kinds—apes, monkeys and baboons; but these do not include the American monkeys, which are really more different from all those of the Old World than any of the latter are from each other.

Says the Manufacturers' Gazette: Some years ago the officers of an American railroad required its engineer to get his plans for iron bridges approved by English experts before beginning the work. Now a famous English engineer, whose work has been criticized, cites the opinion of an American engineer to support his position, saying that the American has built more big bridges himself than there are altogether in Great Britain.

The Western-Union Telegraph Company has estimated the duration of telegraph poles, as follows: Cedar, 16 years; chestnut, 13; juniper, 13; spruce, 7 years. Cedar, chestnut and spruce are used in the Northern States; juniper and cypress in the Southern States; and red wood in California. Poles cut in the summer will not last as long as those cut in the winter by five years.

Soil and climate, of course, make a difference with the life of poles.

According to an English paper there are now being built on the Clyde, Scotland, four steel steamers, to make thirteen knots an hour, for the Canadian Pacific Railroad. They are to run on Lakes Huron and Superior. After they are constructed and tested in Scotland they are to be taken down, shipped in sections, and put up in this country.

The Mechanical Engineer thinks that when this extra work is taken into account they might have been made as cheaply in this country.

Experts of the Federal Polytechnic, Switzerland, have tested the new blasting material known as ammonium, and are stated to have found it entirely free from danger. It appears from their report that this explosive can be ignited only by exposure to an electric spark or the naked flame or by heating it to 180° C. But ammonium even if ignited will not exert its explosive effect unless firmly incited. The explosive effect of ammonium is said to be midway between that of powder and that of dynamite.

The Osterreichischer Liqueur-Fabrikant states that Messrs. Boeket & Machard now prepare both alcohol and paper from wood: 2000 kilos. of wood shavings are treated in wooden vats with 8000 kilos. of water and 800 kilos. of hydrochloric acid for ten to twelve hours, steam being passed in the whole time, so as to keep the mass on a constant boil. When this operation is over the acid liquid is run off, neutralized with chalk, and fermented in a temperature of 24-25° C. The ligneous residue in the vats is washed and dried and worked up for paper.

A technical journal gives a simple receipt for preserving silver and plated articles from turning black, as they invariably will if not kept constantly in use. The same plan could with advantage be applied, we should think, to any metal subject to change or rust from the action of the atmosphere.

Plain collodion—that is, not photographic collodion, is diluted with twice its bulk of spirits of wine, and applied to the surface of the metal with a soft brush. The spirit soon evaporates,

leaving an impervious and transparent skin, which can when required be removed with hot water.

La Tribuna, of Madrid, has a long account of the training by the medical faculty of the faculty of a degree of medicine on Benito Martin Casillas, Bellaspi. (She is) is the only Spanish woman who has ever studied medicine and taken her degree. The paper speaks in warm terms of her as a lady who, in spite of much opposition and national prejudice, has won high honors.

Another Spanish lady is following in Senorita Casillas' footsteps. Finding the Valencia School of Medicine had closed its doors against her, she is now studying in Madrid, where she has met with a more friendly reception.

A German man, employed in the alloys fusible, who has been employed with a bell or a rod into a pipe of some suitable substance, the temperature of which is given by a thermometer, and as soon as the metal has attained its proper temperature necessary for the manufacture of the article, the bell or rod is taken out, and the metal is cast into the desired shape.

Elephants are very much consulted, and appear to be able to do a great deal of work. It is said that an elephant was passing through the streets of London, and that it was by the tail, an infirmity that so often afflicts that it grasped him with its trunk, and placing him against some iron railings kept him prisoner until persuaded by the keeper to let him go. Captain Shipp has recorded in his "Memoirs" that an elephant drenched him with dirty water for having put cayenne pepper on its head-and-butler.

A Sheffield (England) letter writer says: "Some of our local dressing-case makers have found a useful material for tops—that is, the lids of soap-dishes, brush-trays, etc.—in the new aluminum bronze, and which, I am informed, is now being experimented with by a few of the local white-metal houses with the view of testing its value as spoon and fork metal. The great advantage which the dressing-case makers find in the bronze—which is obtained in both silver and gold color—is that, unlike the plated-tops, mounts made from it do not tarnish, and consequently, no matter how long the goods may have to be kept in stock the bright parts retain all their gloss and beauty."

Said an old gentleman, patronizingly to a little child: "Be a good boy, my little man, and you may be President." "Yes, I may be," replied the wide-awake youth, "but you don't want to gamble on it."

"A red flag is a danger signal," said old Uncle Zedekiah. "I know it is, for I found it out by waving a red flag at a bull."

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The mouth of gossip, like a drug store, is open at all hours.

When jealousy comes in at the door love-blows his head off with a revolver. Truth is mighty, but some men get along through life with a mighty little of it.

"My dear boy," wrote an Irishman to his son, "never put off to-morrow what you can do to-day."

A man went to see his lady love, and, wishing to be conversational, observed, "The clock is twenty degrees below zero to-night."

"I cannot abide to see men throw away their tools the minute the clock begins to strike, as if they took no pleasure in their work, and was afraid of doing a stroke too much. The very first time I go on turning a bit after you lose it."

Billed potatoes—The most venerable and cheapest "spuds" to be found in the market. Billed before, and brought on iniquitous and water soaked, sordid and yellowish, sour and heavy.

Yellowish cakes—Baked in a batter tossed on a griddle, rubbed black on the outside and half done within. Man feels an hour afterward as though he had eaten the Day of Judgment.

Hot rolls—Suggest through excess of salaratus the eating of a bar of yellow soap.

Tea—Slops. Solution of tannin, made possibly last week and renewed from day to day.

Cream toast—Three small slices toasted black or brown. Batter of flour, water and salt poured over them.

It is on diet like this that thousands are unconsciously starving to death and going to premature graves. It is diet like this that causes the slow torturing flend dyspepsia, to stalk through the land, scattering his hundreds of protracted agonies on every side. It is diet like this that makes bad blood, and with weakness, desire for rum, and with rum, weakness, desire for rum. It is diet like this, indulged in, that makes men morose, gloomy, ill-natured and vicious.

The hurried restaurant cook, who, in these various horrible compounds, ladles out as much soup poison as does the barkeeper. Sin and misery, disease and death, lie at the bottom of the kitchen pot, always stirring, never resting, day after day; so that the taste of the mixture cooked yesterday pervades that cooked to-day. Future generations will read with horror of the enormities committed in the public kitchens of 1883.

Wit and Wisdom. Irish driver: "Shure that's the Custom House sorr. But it's only the rare of it you'll be seeing this side, sorr. The front's behind."

A little girl, being asked by her grandfather where cotton grew, replied: "In the great simplicity, 'in the gentlemen's ears."

Which is the largest room in the world? The room for improvement.

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Beggar woman to neighbor: "How much do you ask for your little girl to go with me one day?" "A mark." "What a mark?—Why, for a mark I can get a blind woman."

A brother rose in a weekly prayer meeting in New Jersey and said: "Brethren, when I consider the shortness of this life I feel as if I might be taken away suddenly, like a thief in the night."

When Moore's Lalla Rookh appeared Lady Holland said to him: "Mr. Moore, I don't intend to read your Larry O'Rourke. I never want Irish stories."

New servant: "Oh, if you haven't any children I can't come, because whenever anything is broken there will be nobody to blame it on but me."

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Fish balls—Very salt cod and sour potatoes. Like trying to eat a slice of Lot's wife.

Hash—Forbidden ground. Ignorance is bliss; 'tis folly to investigate the subject too closely.

Pork and beans—Should be termed grease, beans and brown sugar. Stomach in rebellion for three hours after.

Mince pies—Chopped meat and apples preserved in brown sugar. Slice of cheese, hard as iron, which has been that piece of pie's faithful companion for a week.

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Recent Legal Decisions. PATENT—BRISSELL—COVERING SUBSEQUENT IMPROVEMENTS—A patent for a "ring pump" was issued to the inventor, and in application for the release there was included certain improvements made after the original patent was issued.

In a bill in equity to enforce the infringement of the re-issued patent—Newton vs. Furst and Bradley Manufacturing Company—filed in the United States Circuit Court, Northern District of Illinois, the defense was made that the reissued patent was void, as it was for a different invention from that described in the original patent, the claim of the patent having been unwarrantably expanded.

Judge Blodgett, in sustaining the defense, said: "Clearly, if the claim of the original patent did not cover the device used by the defendant, and if a release was necessary to expand or explain the patent, in order to cover the defendants, then such release is void under the recent decisions of the Supreme Court of the United States."

CARRIERS—NEGLIGENCE—EXEMPLARY DAMAGES—An action was brought by a passenger in a stage coach against the proprietors of the stage line to recover damages for the injuries he suffered by the upsetting of the stage, which resulted from imperfect and insufficient brakes. At the station where the plaintiff took the stage, the driver called the attention of the agent to the defective condition of the brakes, and efforts were made to repair them by pulling a block on each side of the axle, and the wheels were locked through the driver's neglect.

The driver was held liable for the injuries to the plaintiff, and the damages were awarded. The court held that the driver was negligent, and that the damages were exemplary.

SETTLING OFF LIABILITY—An action was brought by a plaintiff against a defendant, who had been sued on a book account, and he claimed the right to set off against the debt damages for costs which he had incurred in his attachment in the plaintiff's suit against him by the same plaintiff for the same cause of action. The court below decided against the claim, and the defendant appealed to the Supreme Court of Colorado, which reversed the judgment. The Chief Justice, Elbert, in the opinion said: "The court below failed to prosecute the attachment with effect. The right of the defendant to the costs and damages under the bond is in contract and not on the breach of the bond, and though the amount due the defendant is liquidated, that is, not a sum fixed by the hand itself, still it is a sum fixed by the hand itself, and is to be ascertained. And it has been decided in this State that unliquidated damages arising from contract from any bargain may be set off under its law whenever they are capable of liquidation by any unknown legal standard."

EXERCUTION—RECEIPT—A Deputy Sheriff had in his hands an execution, and when he came to levy the defendant showed him a receipt for the amount claimed and a satisfaction of the judgment signed by the officer upon the instructions of the execution plaintiffs sent to him. The defendant sent the officer for trespass—Tienly vs. Frazier—and was defeated.

They then appealed to the

